LMA District Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 2094 Wathal

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				
	** Non-receipt of Summ Reports may effect o			
FALL INSPECTIONS: The overall maintena	d using the same crite ance rating shown abo	ria in the spring and i	n the fall.	ficiencies identified
Comments				

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Right	2.78

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/11/2017 - 4/11/2017			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Brian Mizuno RD 2094			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start		Rating **	Α	Issue No.		10	
LM End		Issue Type +	Ма	Location *		N/A	
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory				Start		End	
Item	Flood Pre	paredness & ⁻	Training		0		0
пеш					٥		0
DWR ID DWR_RD2094_01_s _ 2013_10							
		Comn	nent Cod	le			

Inspector Comment

LMA has a flood response plan in the office. It is recommended for LMA and interested local volunteers to take a flood fight training class in order to refresh on skills and methods.

LM Start		Rating **	Α	Issue No.		11			
LM End		Issue Type +	Ма	Location *		N/A			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End	End		
Item	Emergency Supplies &				0		0		
пеш	Equipmen	nt			0		0		
DWR ID	DWR_RD2	094_01_s _ 201	3_11						
		Comn	nent Cod	le					
	Inspector Comment								
Supplies a	Supplies available on-site.								

Rating ** Issue No. LM Start 12 Α Location * LM End Issue Type + Ма N/A Earthen Levee GPS Latitude/Longitude Category Start End Operations & Maintenance Item . Manuals DWR_RD2094_01_s _ 2013_12 Comment Code Inspector Comment

O&M Manual available at LMA's office.

No Photos

No Photos

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.10	Rating **	М	Issue No.		4	
LM End	0.10	Issue Type +	En	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Encroach	ments		37.7716	85 °	37.771685 °	
пеш				-121.3002	39°	-121.300239 °	
DWR ID DWR_RD2094_01_s _ 2012_4							

Comment Code

RA: Ramp

Inspector Comment

An access ramp has been built on the water side and extends into the channel. This could potentially alter the channel capacity. This item was also noted in the USACE comments.





Tire marks shown onto the ramp from levee. Raised area extends to the trees in the background in the center of the photo.

LM Start	0.24	Rating **	Α	Issue No.		7	
LM End	2.76	Issue Type +	Ma	Location *		LS	
Category	GPS Latitude/Longitude						
Calegory				Start		End	
Item	Vegetatio	n		37.7697	32°	37.749741	0
пеш				-121.3012	15 °	-121.289034	0
DWR ID	DWR_RD2	094_01_s _ 201	7_7				

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Acceptable vegetation control.

Photo 1 of 1: SP 2017 RD2094 320 7 20170417 00014.jpg



View of the acceptable vegetation control on the levee slope.

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.65	Rating **	М	Issue No.		13	
LM End	0.65	Issue Type +	En	Location *		LS	
Category	Supplemental				GPS Latitude/Longitude		
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.76751	4 °	37.767514°	
пеш				-121.29492	6°	-121.294926°	
DWR ID							

Comment Code

Inspector Comment

FS_ID:21464 DS_ID:23086 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - walkway in poor condition and needs repair.-

electric conduit on waterside.

FIELD_STRUCT_DESC: 14-inch concrete encased steel pipe and GI conduit through the levee, 10.0 feet below the crown, pump mounted on a pile structure in the stream, slide gate, 54-inch corrugated metal pipe riser on the waterward shoulder, concrete distribution box and service pole on the landward toe, installed by USCE, 1962 (O&M Unit No. 3, 1968)

FS Date: 9/10/2013

LM Start	0.65	Rating **	М	Issue No.	13 (cont)
LM End	0.65	Issue Type +	En	Location *	LS

Photo 1 of 3: UCIP_SP_2017_21464_36405.jpg



WS view: gate valve in CMP riser (bottom) and pipe & pump (top) on piling structure in the channel.

Photo 2 of 3: UCIP_SP_2017_21464_36404.jpg



WS view: pump on piling structure in the channel. Pipe (right-bottom) and conduit (bottom- left).

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.65	Rating **	М	Issue No.		13 (cont)
LM End	0.65	Issue Type +	En	Location *		LS
Category	ental	GPS Latitude/Longitude				
Calegory				Start		End
Item	DWR UC	IP Field Study		37.7675	14°	37.767514°
пеш				-121.2949	26 °	-121.294926 °
DWR ID						

Comment Code

Inspector Comment

FS_ID:21464 DS_ID:23086 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - walkway in poor condition and needs repair.-

electric conduit on waterside.

FIELD_STRUCT_DESC: 14-inch concrete encased steel pipe and GI conduit through the levee, 10.0 feet below the crown, pump mounted on a pile structure in the stream, slide gate, 54-inch corrugated metal pipe riser on the waterward shoulder, concrete distribution box and service pole on the landward toe, installed by USCE, 1962 (O&M Unit No. 3, 1968)

1968)

FS Date: 9/10/2013



LS view: exposed pipe, service pole, and concrete distrinution box on levee toe.

LM Start	0.91	Rating **	М	Issue No.		8
LM End	0.91	Issue Type +	En	Location *	WS	
Category	Earthen L		GPS Latitude/Longitude			
Calegory				Start	End	
Item	Encroach	ments		37.76416	9°	37.764169°
пеш				-121.29356	32 °	-121.293562 °
DWR ID DWR_RD2094_01_s _ 2017_8						
Comment Code						

AV : Abandoned vehicles

Inspector Comment

Remove boat from the levee slope.

Photo 1 of 1: SP_2017_RD2094_320_8_20170417_00015.jpg



View of the boat on the levee slope.

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	1.25	Rating **	М	Issue No.		14	
LM End	1.25	Issue Type +	En	Location *		WS	
Supplemental				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.76058	1°	37.760581 °	
пеш				-121.29737	3°	-121.297373 °	
DWR ID						·	

Comment Code

Inspector Comment

FS_ID:21544 DS_ID:23087 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - working as drainage system during field visit. Pump was not running.- electric conduit on WS- open pipe end in CMP

riser. CMP needs cleaning.

FIELD_STRUCT_DESC: 20-inch concrete encased steel pipe through the levee, 10.0 feet below the crown, pump mounted on a pile structure in the stream, gate valve, 54-inch corrugated metal pipe riser on the waterward shoulder, concrete distribution box and service pole on the landward toe (O&M Unit No. 3, 1968)

FS Date: 9/10/2013

LM Start	1.25	Rating **	М	Issue No.	14 (cont)
LM End	1.25	Issue Type +	En	Location *	WS

Photo 1 of 3: UCIP_SP_2017_21544_36524.jpg



WS view: overview of pump (top) and CMP riser (bottom)

Photo 2 of 3: UCIP_SP_2017_21544_36523.jpg



WS view: pipe and pump on piling structure in the channel. Walkway in poor condition.

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	1.25	Rating **	М	Issue No.		14 (cont)	
LM End	1.25	Issue Type +	En	Location *		WS	
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.7605	81 °	37.760581	0
пеш				-121.2973	73 °	-121.297373	0
DWR ID							

Comment Code

Inspector Comment

FS ID:21544 DS_ID:23087 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - working as drainage system during field visit. Pump was not running.- electric conduit on WS- open pipe end in CMP

riser. CMP needs cleaning.

FIELD_STRUCT_DESC: 20-inch concrete encased steel pipe through the levee, 10.0 feet below the crown, pump mounted on a pile structure in the stream, gate valve, 54-inch corrugated metal pipe riser on the waterward shoulder, concrete distribution box and service pole on the landward toe (O&M Unit No. 3, 1968)

FS Date: 9/10/2013

Photo 3 of 3: UCIP_SP_2017_21544_36522.jpg



WS view: damaged gate valve handle in CMP riser on levee shoulder.

LM Start	2.25	Rating **	M	Issue No.		15	
LM End	2.25	Issue Type +	En	Location *	WS		
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.7522	30°	37.752230	0
item				-121.2964	08 °	-121.296408	0
DWR ID							

Comment Code

Inspector Comment

FS_ID:41726 DS_ID:23088 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - dense vegetation on WS.- working during field

survey.- slide gate not found on WS.

FIELD_STRUCT_DESC: 20-inch concrete encased steel pipe through the levee, 6.0 feet below the crown, slant pump mounted on a frame structure on the stream bank, 54-inch corrugated metal pipe riser on the waterward shoulder, concrete distribution box and service pole on the

landward toe (O&M Unit No. 3, 1968)

FS Date: 9/10/2013

Photo 1 of 3: UCIP_SP_2017_41726_36502.jpg



WS view: slant pump (top) on stream bank and CMP riser on levee shoulder.

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	2.25	Rating **	М	Issue No.		15 (cont)
LM End	2.25	Issue Type +	En	Location *		WS
Cotogon/ Supplemental				GPS Latitude/Longitude		
Calegory	Category			Start		End
Item	DWR UC	IP Field Study		37.75223	°	37.752230°
пеш				-121.29640	3°	-121.296408°
DWR ID						

Comment Code

Inspector Comment

FS_ID:41726 DS_ID:23088 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - dense vegetation on WS.- working during field

survey.- slide gate not found on WS.

FIELD_STRUCT_DESC: 20-inch concrete encased steel pipe through the levee, 6.0 feet below the crown, slant pump mounted on a frame structure on the stream bank, 54-inch corrugated metal pipe riser on the waterward shoulder, concrete distribution box and service pole on the

landward toe (O&M Unit No. 3, 1968)

FS Date: 9/10/2013

LM Start	2.25	Rating **	М	Issue No.	15 (cont)
LM End	2.25	Issue Type +	En	Location *	WS

Photo 2 of 3: UCIP_SP_2017_41726_36501.jpg



WS view: slant pump on stream bank and dense vegetation on stream bank.

Photo 3 of 3: UCIP_SP_2017_41726_36500.jpg



WS view: inside view of CMP riser on levee shoulder. No slide gate found.

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	2.45	Rating **	М	Issue No.	16		
LM End	2.45	Issue Type +	En	Location *	WS		
Category	Suppleme	ental		GPS Lat	tud	e/Longitude	
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.75230	3°	37.752308 °	
пеш				-121.29319	1°	-121.293191 [°]	
DWR ID							

Comment Code

Inspector Comment

FS_ID:21545 DS_ID:23089 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - no pipes found on either side of the levee.concrete distribution box on LS. Soil erosion around distrinution box. FIELD_STRUCT_DESC: Rectangular concrete distribution box on the

landward toe FS Date: 9/10/2013

LM Start	2.45	Rating **	М	Issue No.	16 (cont)
LM End	2.45	Issue Type +	En	Location *	WS

Photo 1 of 3: UCIP_SP_2017_21545_36529.jpg



WS view: no pipe found on waterside.

Photo 2 of 3: UCIP_SP_2017_21545_36528.jpg



Enter photo 2 description or comment here.

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	2.45	Rating **	М	Issue No.		16 (cont)	
LM End	2.45	Issue Type +	En	Location *		WS	
Category	Suppleme	ental		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.7523	08°	37.752308	0
пеш				-121.2931	91 °	-121.293191	0
DWR ID							

Comment Code

Inspector Comment

FS_ID:21545 DS_ID:23089 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - no pipes found on either side of the levee.concrete distribution box on LS. Soil erosion around distrinution box. FIELD_STRUCT_DESC: Rectangular concrete distribution box on the

landward toe FS Date: 9/10/2013



LS view: erosion around a concrete standpipe on the landside toe.

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles
Unit No. 02 San Joaquin River		0.45

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/11/2017 - 4/11/2017			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Brian Mizuno RD 2094			

Summer & Winter Inspections

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- c) corrections to deficiencies noted in this report

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Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.45	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.01	Rating **	Α	Issue No.		1			
LM End	0.44	Issue Type +	Ма	Location *		WS			
Category	Earthen L	evee		GPS La	titud	e/Longitude			
Calegory			Start		End				
Item	Vegetation			37.7592	53 °	37.760602 °			
пеш			-121.299783 °		-121.307040 °				
DWR ID	DWR_RD2094_02_s _ 2017_1								
		Comn	nent Cod	le					
V1 : Contro easements		grass and wee	ds on th	e levee slop	es	and			
Inspector Comment									
Acceptable	vegetatio	n control.							



View of the acceptable vegetation on the levee slope.

LM Start	0.05	Rating **	М	Issue No.	2		
LM End	0.22	Issue Type +	Ma	Location *	WS		
Category	Catagoni Earthen Levee			GPS Latitude/Longitude			
Calegory		Start		End			
Item	Erosion / Bank Caving			37.759549°		37.760616	0
пеш		-121.300319°		-121.303081	0		
DWR ID	DWR_RD2094_02_s _ 2017_2						
Comment Code							

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Photo 1 of 1: SP_2017_RD2094_321_2_20170417_00002.jpg



View of the wave wash erosion on the levee slope.